Stellingen behorend bij het proefschrift

Stem Cell based Generation of Midbrain Dopaminergic Neurons

– *towards cellular tools to study Parkinson's disease* –

van

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1. Recent developments in disease modeling and regenerative medicine have placed induced pluripotent stem cells (iPSCs) in the center of attention as a unique source to study Parkinson's disease. (this thesis)

2. The ability of neural stem cells to generate bona fide midbrain dopaminergic neurons seems to be inhibited after they have passed a distinct window of neural development. (this thesis)

3. iPSCs have been proven to be truly pluripotent. As a result they have comparable differentiation capacities as embryonic stem cells but leap the controversies that traditionally hampered ESC research. (this thesis)

4. Regardless of technical difficulties of surgical intervention, the regional confined nature of cell loss in Parkinson's disease makes replacement strategies highly attractive. (this thesis)

5. Latest discoveries in the field of epigenetics bring a refreshing 'Lamarckian' twist to the rather ridged theory of evolution.

6. Although epigenetic effects are thought to be relatively long-lasting, an accurately choreographed change in the epigenetic program is crucial for a properly executed transition from one cell type to another. (this thesis)

7. A scientist is a mimosa when he himself has made a mistake, and a roaring lion when he discovers a mistake of others. – A. Einstein

8. Some aspects of pursuing an advanced scientific degree do not support a healthy life style.

9. Sadly, today's educational systems seem to be unable to prevent or might even nurture fraud on almost all scientific levels.

10. Sports do not built character. They reveal it. – J. Wooden

11. Whatever you can do, or dream you can do, begin it! Boldness has genius, power and magic in it. – J. W. Goethe